

STATE OF IDAHO  
Department of Fish and Game

Joseph C. Greenley, Director

Quarterly Project Progress Report  
MACKAY HATCHERY SPRING CHINOOK

Project No. 88E22030

Contract No. 79-ABC-00035

Period Covered: January 1, 1979 to March 31, 1979

Columbia River Fisheries Development Program

June, 1979

## Mackay Hatchery Spring Chinook

### Rearing

At the start of this quarter we had 226,824 1978 brood year fish and 740,604 1977 brood year fish. No stocking occurred and we ended the quarter with 218,211 1978 brood year and 704,142 1977 brood year fish.

### Observations

Losses were less severe than in the past. I believe the air bubble in the stomach and the fin and tail erosion in both sizes of fish is directly related to the amount of coagulated yolk sac and blue sac occurring shortly after hatching.

Prepared by:

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Mackay Hatchery